

**In the Specification:**

Please replace the paragraph beginning on page 5, line 3 of the specification with the following rewritten paragraph:

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a<sup>1</sup> The anode electrode unit is formed with a plurality of segments, and the control electrode surrounds each segment of the anode electrode unit. The control electrode is formed ~~in~~ with a ~~body~~ unitary part, or in a separate manner, and has a main control part for accelerating and intercepting the thermal electrons, and a subsidiary control part for assisting the main control part in controlling the thermal electrons. The main control part surrounds each segment of the anode electrode, and the subsidiary control part is formed at a top end portion of the main control unit in a body. The subsidiary control part is formed with an extension where the top end portion of the main control unit is extended toward each segment of the anode electrode perpendicular to the main control member.

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Please, also, replace the paragraph beginning on page 8, line 12 of the specification with the following rewritten paragraph:

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a<sup>2</sup> The metal rib-based control electrode 18 is structured to surround one anode electrode unit. For instance, in case seven segments come together to form an anode electrode unit, the control electrode surrounds each segment. The control electrode 18 surrounding one anode electrode unit may be formed ~~in~~ with a ~~body~~ unitary part, or in a separate manner.

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